

IN THE UNITED STATES PATENT & TRADEMARK OFFICE

IN RE APPLICATION OF :
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 SERIAL NO: 10/572,574 :
 FILED: MARCH 17, 2006 : GROUP ART UNIT: 1628
 FOR: SKIN CLEANSING AGENT, :
 PARTICULARLY FOR REMOVING
 PRINTING INKS AND/OR SOILING CAUSED
 BY INK

COMPARATIVE EXPERIMENTAL DATA

COMMISSIONER FOR PATENTS
 ALEXANDRIA, VIRGINIA 22313

SIR:

1. Formulations: The following formulations were prepared as shown below. The inventive formulation of Example A contains PEG-2 rapeseed amine without potassium hydroxide. The conventional formulation of Comparative Example B contains potassium hydroxide as a "pH regulator" without PEG-2 rapeseed amine.

Tradename	Chemical	A [%]	B [%]
Propandiole 1,2	propylene glycol	2.000	2.000
Polydiole 400	PEG-8	49.590	49.590
Bermocoll EHM 200	C ₁₂ -C ₁₆ alkyl hydroxyethyl ethylcellulose	1.500	1.500
Intrasol 1218/10 / FK	Laureth-10	10.000	10.000
Berol 302	PEG-2 rapeseed amine	9.900	-
ethan. KOH 0.5mol/l	Potassium hydroxide	-	9.900
EDTA-powder	Tetrasodium EDTA	2.000	2.000
CI 77891	Titanium dioxide	1.500	1.500
Mono sodium phosphate calc.	Sodium phosphate	0.010	0.010
Aerosil® 200 of Evonik Degussa GmbH	Silica	3.000	3.000
Hydrosulfite PFS	Sodium hydrosulfite	10.000	10.000
Walnut shell powder	Juglans Regia Shell Powder	10.000	10.000
Perfume oil	Perfume	0.500	0.500
Total		100.000	100.000

2. Experimental Procedure: The cleaning power of the formulation of Example A and the conventional formulation of Comparative Example B was tested with the following hand washing test using 10 subjects:

- 0.5 g of black ink (Pelikan 4001 Brillant-Schwarz) stain soiling was distributed on the palm and the back of the hand and rubbed in
- hands were allowed to dry for 1½ min
- 1.2 g of the formulation of Example A or the conventional formulation of Comparative Example B was applied and rubbed in
- 1 ml of water was added and the hands were washed for 30 s
- a further 1 ml of water was added and the hands were washed again for 30 s
- hands were rinsed under cold running water
- a visual assessment of residual ink stain soiling on the back and the palm of the hand was conducted according to the following scale.

0 = clean

1 = small amounts of residual ink stain soiling remaining

2 = medium amounts of residual ink stain soiling remaining

3 = large amounts of residual ink stain soiling remaining

4 = very large amounts of residual ink stain soiling remaining

5 = no cleaning

3. Experimental Results: Measurements of the average values of residual ink stain soiling on the hands are as follows:

Formulation	Ink Cleaning Results
Example A	1.2
Comparative Example B	4.6